

APRIL/MAY 2024

23UFBC14 — BASICS IN BIOCHEMISTRY



Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are proteins? Give examples.
2. Explain the role of lipids.
3. Recall the sugar that is found in DNA and RNA
4. Summarize few points about recombinant DNA.
5. What is Coenzyme?
6. Show the deficiency disorder of vitamin B1.
7. What is meant by fermentation?
8. Explain the term immunity.
9. What is medical coding?
10. Summarize any two diagnostic tests used in laboratories.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Classify protein based on solubility.

Or

(b) Analyze about features of silk fibroin.

12. (a) Compare DNA and RNA.

Or

(b) Examine the structure and types of rRNA in prokaryotes.

13. (a) Identify the characteristic features of enzymes.

Or

(b) Analyze the structure of Vitamin D and its deficiency disorder.

14. (a) Identify the role of microbes in infection.

Or

(b) What are phagocytes? Simplify the process of Phagocytosis.

15. (a) Identify and explain about the common specimens used in medical laboratories.

Or

(b) Examine the primary coding systems utilized to report services provided.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the classification of carbohydrates with examples.

17. Discuss the role of Recombinant DNA technology in different fields.

18. Assess the various factors that affect enzyme activity in the cell.

19. Elaborate on the role of microbes in fermentation.

20. Discuss about the common instruments used in medical laboratories.
